

Department of Energy National Nuclear Security Administration Pantex Site Office P. O. Box 30030 Amarillo, TX 79120



FEB 10 2006

MEMORANDUM FOR:

Ted Wyka, NNSA HQ, NA-1

FROM:

Daniel E. Glenn, Manager

SUBJECT:

Annual Workforce Analysis and Staffing Plan Report

REFERENCE:

Memorandum Schepens/Distribution, Annual Workforce Analysis and

Staffing Plan Report, October 28, 2005

Attached please find the annual staffing analysis report for the Pantex Site Office that was requested by the referenced memorandum. It is my expectation you will determine whether to provide the information to Mr. Schepens.

The analysis shows a shortage of nine people for positions covered under the Technical Qualification Program (TQP). I expect to hire one facility representative this fiscal year to reduce the shortage to eight. Based on recent decisions by NNSA regarding Site Office Full Time Employee allotments, it is unlikely any additional personnel will be hired for TQP positions in the foreseeable future. As a result, there is nothing to be gained by providing the analysis and status reports specified by Corrective Action 1 of the Department's Deliverable for Commitment 13 to the implementation plan prepared in response to DNFSB Recommendation 2004-1. In that regard, I do not intend to provide any further information on this subject unless directed by NNSA.

Questions in regard to this matter should be referred to Karl Waltzer at 806-477-3148.

Attachment:

cc w/attachment:

F. Russo, NA-1, (Fors)

D. White, PXSO, 12-36A

J. Johnson, PXSO, 12-36A

M. Padilla, PXSO, 12-36A

G. Wisdom, PXSO, 12-36A

S. Erhart, PXSO, 12-36A

K. Waltzer, PXSO, 12-36A

J. Kirby, PXSO, 12-36A

E. Demerson, PXSO, 12-36A

D. Rhodes, GenQuest, 12-36A

Annual Workforce Analysis and Staffing Plan Report As of December 31, 2005 Reporting Office: Pantex Site Office

Section One: Current Mission(s) of the Organization and Potential Changes

The primary mission of the Pantex Site Office is to provide on-site management, day-to-day oversight and surveillance of the Pantex Plant Contractor's operations and support for accomplishment of DOE, NNSA's strategic and long term goals.

- Eleven main facilities for nuclear explosive operations
- One main facility for nuclear material operations
- Nuclear explosive and nuclear material staging facilities
- High explosive formulation, fabrication and machining facilities

Operations are expected to be largely unchanged.

Section Two: Technical Staffing

See attached enclosures 1, 2, 3 and 4 for STSM, FR, SSO, and Other TQP staffing analyses.

Number of Hazard Category 1, 2, or 3 Nuclear Facilities:

HC 1: None HC 2: See FR Staffing Analysis HC 3: None

Number of Radiological Facilities: See FR/SSO Staffing Analysis

Number of High or Moderate Hazard Non-Nuclear Facilities: See FR/SSO Staffing Analysis

Number of Low Hazard Non-Nuclear Facilities: See FR/SSO Staffing Analysis

Number of Documented Safety Analyses: Site-wide, Facility Specific, & per Weapons Program

Number of Safety Systems²: See SSO Staffing Analysis

Number of Site Contractor FTEs: Approximately 3200

Number of Federal Office FTEs: 83

In the following Technical Staffing Summary Table, the electrical, mechanical, maintenance, I&C, fire protection, civil/structural functions are included in the responsibilities of the safety system oversight personnel.

	TEC	HNICAL S'	TAFFING 1		
Techni	cal Staffing	g Summary	Table (see N	otes below)	
	Faci	Hazardous lities¹		se Nuclear lities ²	Comments
TECHNICAL CAPABILITY	Number of FTEs Needed ¹	Number of FTEs Onboard I	Number of FTEs Needed ²	Number of FTEs Onboard ²	Comments
Senior Technical Safety Managers	6	6	6	6	
Safety System Oversight Personne ³	5	4	5	4	
Facility Representatives ⁴	10	7	10	7	1
Other Technical Capabilities: ⁵	10		10		
Aviation Safety Manager	N/A	N/A	N/A	N/A	
Aviation Safety Officer	N/A	N/A	N/A	N/A	
Chemical Processing	N/A	N/A	N/A	N/A	
Civil/Structural Engineering	See	See	See	See	See "SSO" Analysis
Civil/Structural Engineering	Comments	Comments	Comments	Comments	See SSO Allalysis
Construction Mgmt	4	4	4	4	
Criticality Safety	0.1	0.1	0.1	0.1	
Deactivation and Decommissioning	N/A	N/A	N/A	N/A	
Electrical Systems	See	See	See	See	See "SSO" Analysis
	Comments	Comments	Comments	Comments	
Emergency Management	1	1	1	1	
Environmental Complianœ	3	3	3	3	
Environmental Restoration	1	1	1	1	
Facility Maintenance Mgmt	See Comments	See Comments	See Comments	See Comments	See "SSO" Analysis
Fire Protection Engineering	See Comments	See Comments	See Comments	See Comments	See "SSO" Analysis
Industrial Hygiene	1	1	1	1	
Instrumentation and Control	See Comments	See Comments	See Comments	See Comments	See "SSO" Analysis
Mechanical Systems	See Comments	See Comments	See Comments	See Comments	See "SSO" Analysis
Nuclear Explosive Safety	2	2	2	2	
Nuclear Safety Specialist	8	5	8	5	
Occupational Safety	2	1	1	1	
Quality Assurance	6	6	6	6	
Radiation Protection	1	1	1	1	
Safeguards and Security	9	9	9	9	
Safety Software Quality Assurance	0.2	0.2	0.2	0.2	
Technical Program Manager	12	11	12	11	
Technical Training	1	0	1	0	
Transportation & Traffic Mgmt	1	1	1	1	
Waste Management	1	1	1	1	

Notes:

- 1. These columns are the number of FTEs needed to perform the Federal Safety Assurance function for all hazardous facilities, including defense and non-defense nuclear facilities, radiological facilities, and other hazardous facilities. The Federal Safety Assurance function is described in the DOE Implementation Plan to Improve Oversight of Nuclear Operations (in response to Defense Nuclear Facilities Safety Board Recommendation 2004-1).
- 2. These columns apply only to defense nuclear facilities, and are a subset of the previous columns. These positions are

being specified in order to report the status of shortages and any actions taken to fill them to the DNFSB in December 2006 under Commitment 15 in the DOE 2004-1 IP.

- 3. SSO staffing analysis worksheets can be found at http://www.ftcp.org.
- 4. Facility Representative staffing analysis worksheets can be found at http://www.ftcp.org.
- 5. Any additional required technical capabilities should be added to this list. No listed technical capabilities should be deleted.

Section Three: Current shortages and plans for filling them

Facility Representatives: One FR position is currently being filled to restore the PXSO total to eight. PXSO has authorization to hire two more FR's to bring the total to the staffing analysis recommended strength of ten. It is expected those additional FR's will be hired in CY06.

Safety System Oversight: The current staffing level of four is being augmented through the use of the Service Center and other resources to perform assessments in some areas e.g., special tooling. There is currently no authorization to add FTE's to this functional area although PXSO will continue to seek that authorization through the NNSA Leadership Coalition.

Safety Systems Specialist: These personnel perform the DSA review activity at PXSO in addition to collateral duties of criticality safety and SQA. Current staffing is augmented through the use of the Service Center and support service contractors for DSA reviews. Assuming that support remains available for the next two years, it is expected the DSA review workload will be reduced as S\Delta1 projects complete and the remaining new TSR controls are implemented. PXSO may pursue one to two FTE's to reduce dependency on the Service Center since that avenue tends to be less efficient than origin staff.

Occupational Safety: With the advent of 10CFR851 itis expected OHA oversight requirements will increase. The FTE levels for all hazardous facilities have been increased to "two" to reflect the work associated with the new Rule. PXSO will continue to seek that authorization through the NNSA Leadership Colition.

Technical Program Manager: The staffing results reflect a current vacancy that is expected to be filled in CY06.

Training: The training FTE has been requested in the past. The position will be requested again in CY06.

Section Four: Projected shortage/surplus over next five years

These are no significant changes to the plant mission that would substantially change the staffing requirements expected over the next five years at this time. Retirements are expected to occur over the next five years and will be backfilled using normal hiring practices. FTE needs will not reduce in the event of attrition. It is not expected attrition would result in the loss of any FTE allocations.

Section Five:	General	concerns	or	recommendat	tbns	related	to	the	Technica	ıl Si	taffir	ıg

None

Pantex Site Office Senior Technical Safety Manager (STSM) Staffing

The Pantex Site Office has identified the following positions as STSM based on the criteria of the FTCP manual and the function areas of responsibility in regard to operation of defense nuclear facilities. See attached organization chart.

Title	Function
Manager	Overall safety responsibility for nuclear explosive and nuclear material operations.
Senior Science and Technical Advisor	Provides advice to Manager and Assistant Managers for safety issues related to nuclear explosive and nuclear material operations.
Assistant Manager for Nuclear Engineering	Review and approval of safety basis documents, the USQ program and safety system oversight for nuclear explosive and nuclear material operations. Provides nuclear explosives safety oversight.
Assistant Manager for Operations	Oversight of program activities related to the safe operation of nuclear explosive and nuclear material facilities.
Assistant Manager for Environmental and Site Engineering Programs	Oversight of design and construction activities and environmental compliance activities related to the safe operation of nuclear explosive and nuclear material facilities.
Assistant Manager for Oversight and Assessment	Facility representative program, quality assurance, and safety management programs relevant to the safe operation of nuclear explosive and nuclear facilities.

Table 1 - Facility Representative Staffing (Tables 2 & 3 from FR Staffing Template)

		De	termination	of Facility Co	verage Ranking P	riority		Determination	n of Facilit	y Representativo	e Coverage
Facility or Groups of Facilities	Facility Hazard Value	Facility Size	Material Condition	Operations Complexity	Programmatic Importance	Operational Rigor	Coverage Ranking Priority	Facility Categorization	Facility Activity Level	Base Coverage Level	Adjusted Coverage Level
a	b	С	d	e	f	g	·h	i	j	k	1
Bldg. 12-44	19	0.75	1	0.75	0.75	1	8	N2	Н	F	F
Bldg. 12-85	19	0.75	0.75	0.75	0.75	1	6	N2	Н	F	F
Bldg. 12-96	19	0.75	0.75	0.75	0.75	1	6	N2	Н	F	F
Bldg. 12-98	19	0.75	0.75	0.75	0.75	1	6	N2	Н	F	F
Bldg. 12-84	18	0.75	1	0.75	0.75	1	_ 8	N2	Н	F	F
Bldg. 12-99	18	0.75	0.75	0.75	0.75	1	6	N2	Н	F	F
Bldg.12-104	18	0.75	0.75	0.75	0.75	1	6	N2	Н	F	F
Z-4 SNM	15	1	1	0.75	0.75	1	8	N2	Н	F	F
Bldg. 12-50	14	0.75	1	0.75	0.75	1	6	N2	L	0	0
Bldg. 12-60	14	0.75	1	0.75	0.75	1	6	N2	M	F	F
Bldg. 12-64	13	0.75	1	0.75	0.75	1	5	N2	Н	F	F
Bldg. 11-51	10	0.75	1	0.75	0.75	1	4	E2	M	I	I
FS	10	0.75	1	0.75	0.75	1	4	E2	M	0	О
Bldg. 12-121	4	0.75	0.75	0.75	0.75	1	1	E3	Н	F	F
Bldg. 11-55	8	0.75	1	0.75	0.75	1	3	E2	M	I	I
Bldg. 12-19E	8	0.75	1	0.75	0.75	1	3	E2	M	0	О
Bldg. 12-116	8	0.75	0.75	0.75	0.75	1	3	N2	Н	F	F
BG	8	0.75	1	0.75	0.75	1	3	E2	M	0	О
Bldg. 12-58	7	0.75	1	0.75	0.75	1	3	N2	M	I	О
Bldg. 12-66	7	0.75	1	0.75	0.75	1	3	N2	M	1	Ι.
Bldg. 12-86	5	0.75	0.75	0.75	0.75	1	2	E2	Н	F	F
Bldg. 11-38	5	0.75	1	0.75	0.75	1	2	E2	L	S	S
Bldg. 12-62	5	0.75	1	0.75	0.75	1	2	E2	L	S	S

Table 1 - Facility Representative Staffing (Tables 2 & 3 from FR Staffing Template)

		De	termination	of Facility Co	verage Ranking P	riority		Determinatio	n of Facilit	y Representativo	e Coverage
Facility or Groups of Facilities	Facility Hazard Value	Facility Size	Material Condition	Operations Complexity	Programmatic Importance	Operational Rigor	Coverage Ranking Priority	Facility Categorization	Facility Activity Level	Base Coverage Level	Adjusted Coverage Level
a	b	С	d	e	f	g	h	i	j	k	1
Bldg. 12-17	5	0.75	1	0.75	0.75	1	2	E4	М	0	О
2-104A Paint B	5	0.75	0.75	0.75	0.75	1	2	N2	L	0	О
Bldg. 11-20	5	0.75	1	0.75	0.75	1	2	E2	M	0	О
Bldg. 12-21	4	0.75	1	0.75	0.75	1	2	E2	L	S	S
Bldg. 12-63	4	0.75	1	0.75	0.75	1	2	E2	M	О	О
Bldg. 12-31	4	0.75	1	0.75	0.75	1	2	E2	M	. 0	O
Bldg. 11-50	3	0.75	1	0.75	0.75	1	1	E2	L	S	S
12-65/83	3	0.75	1	0.75	0.75	1	_ 1	E2	L	S	S
12-104-A	3	0.75	0.75	0.75	0.75	1	1	E2	L	0	О
Bldg. 12-79	2	0.75	1	0.75	0.75	1	1	E3	L	S	S
Bldg. 11-15	2	0.75	1	0.75	0.75	1	1	E2	L	S	S
Bldg. 11-37	2	0.75	1	0.75	0.75	1	1	E2	L	S	S
Bldg. 12-19W	2	0.75	1	0.75	0.75	1	1	E2	L	0	О
Bldg. 12-26	2	0.75	1	0.75	0.75	1	1	E2	L	S	S
12-55/56	2	0.75	1	0.75	0.75	1	1	E2	L	S	S
Bldg. 12-42	1	0.75	1	0.75	0.75	1	0	N2	L	S	S
Bldg. 12-82	1	0.75	1	0.75	0.75	1	0	E3	M	S	S
HPFL	1	0.75	1	0.75	0.75	1	0	Safety Class	N/A	0	O
12-32/33	1	0.75	1	0.75	0.75	1	0	E4	L	S	S
Bldg. 12-44 Cell 8	0	0.75	1	0.75	0.75	1	0	N2	L	О	О
12-21	0	0.75	1	0.75	0.75	1	1	E2	M	О	О
12-53/52	0	0.75	1	0.75	0.75	1	0	E4	L	S	S
Γotal					·						

Table 2 - Facility Hazard Value (Table 1 from FR Staffing Template)

Bldg. 12-86	FS	Bldg. 12-66	Bldg. 12-58	Bldg. 12-19E	Bldg. 11-55	Bldg. 12-116	Bldg, 11-51	Bldg. 12-121	Z-4 SNM	Bldg. 12-60	Bldg. 12-50	Bldg. 12-64	Bldg. 12-44 Cell 8	Bldg. 12-84	Bldg.12-104	Bldg. 12-99	Bldg. 12-98	Bldg. 12-96	Bldg. 12-85	Bldg. 12-44	Facility or Groups of Facilities	
0	0	0	0	0	0	_	0	0	1	1	1	1	0	1	1	1	1	1	1	1	public	ਲੂ ਲੂ
0	0	<u>-</u>	_	0	0	2	0	0	1	2	2	2	0	2	2	2	2	2	2	2	worker	Radiation Exposure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	tion
0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	_	1	1	1	1	public	\circ
0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	_	worker	Criticality
0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1		_	environment	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	₽.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Biological
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ical
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	CΉ
1	1	0	0	2	2	0	1		0	0	0	1	0	1	1		1			_	worker	Hazardous Chemicals
0	0	1		2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	dous
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	
0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Lasers
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ST
0	0	0	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	(E)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Electricity
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ici
0	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	0	0	0		0	public	
0		0	0	0	0	0	2	0	0	0	0	0	0) 0	0	0	0		0 (0	worker	Cryogens
0	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	0	0	0 0	0 0	0	environment	gens
0	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	0	0	0	0	0	public	
0	_	0	0	0	0	0	_	0	0	_	_		0) 1	1	1		<u> </u>	1	0	worker	High Pressure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	le 🚡
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	public	_ =
1	0	_		0	0	_	0	0	1	1	_		0) 1		1					worker	Hoistii Rigg
0	0	0	0	0	0	0	0	0	<u> </u>	0	0	0	0	0	0	0	0	1 0	0	0	environment	ing & ging
0	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	0	0	0	0	0	public	
1	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0	0	0	0	0	0	worker	Construction or D&D
0	0	0	0	0	0	0	0	0	0	0	0	0	0) 0	0					0	environment	E Gi
0	0	0	0	0	0	0	0	0		1						0 1	0	0	0		public	
0) 2	0	0	3	3	0	2	3	2	3	ς.	0	0	1 3			2 3	2	2	2	worker	Explosives
0	0		0	0	0	0	0		1	3 1	<u>-3</u>	0	0	<u>3</u>	<u> </u>	<u>3</u>	ω _.	ω 	<u>ω</u>	ω	environment	sives
	1	0		0	0				1 2			0	0	1		1	-	<u> </u>	<u> </u>	<u></u>	public	
0 2	1 2	1 2	1 2		1	1 2	0 2	<u>_</u>		1 2	 	<u>-</u>	0		<u> </u>	1	<u> </u>	1	<u> </u>	2	worker	Fire
2 0	2 1	1	2 1	1 0	1 0		2 0	2 1	2 2	<u> </u>	2 1	2	9	2	2	2	2	2	2	2	environment	, ,
) 5	10	7	1 7	8	8	9) 10	9	2 15	14	14	1 13	0 0	1 18	18	1 18	1 19	1 19	1 19	1 19	Facility Hazard Value	

Table 2 - Facility Hazard Value (Table 1 from FR Staffing Template)

Bldg. 12-42	HPFL	Bldg. 12-82	12-32/33	12-55/56	Bldg. 12-26	Bldg. 12-19W	Bldg. 11-37	Bldg. 11-15	Bldg. 12-79	12-104-A	12-65/83	Bldg. 11-50	Bldg. 11-20	Bldg. 12-21	Bldg. 12-31	Bldg. 12-63	Bldg. 12-62		Bldg. 12-17	BG	Facility or Groups of Facilities	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	es 72
0	0	0	0	0	0	0	0	0	<u> </u>	_	0	0	0	1	0	0	0	0	0	0	worker	Radiation Exposure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	tion sure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	C
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 (worker	Criticality
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ality
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		public	₩.
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Biological
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ical
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	H ₂
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	0	_	_	worker	Hazardous Chemicals
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	lous cals
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	
0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	worker	Lasers
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ß
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Eld
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Electricity
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	city
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Cr
0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	worker	Cryogens
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ens
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	₽ _
0	1	0	0	0	0	0	0	0	0	0	0	-	0	-	0	-	0	-	0	0	worker	High Pressure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ге
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Hoistir Riggi
0	0	0	느	0	0	0	0	0	-	<u> </u>	0	0	0	0		0	<u> -</u>	0	0	0	worker	sting d
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	100
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Construction or D&D
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Construction or D&D
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Exp
0	0	0	0	0	-	<u>–</u>	<u>-</u>	<u> </u>	0	0	2	<u> -</u>	2	<u> </u>	1/2	2	2	<u> </u>	ω	2	public worker environment	losiv
0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	es
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<u> </u>	public	- -
0	0	_	0	<u> -</u>	<u></u>	<u> </u>	<u> </u>	<u> -</u>	<u> -</u>	<u> </u>	_	<u>-</u>	<u> -</u>	<u> -</u>	1-	<u> -</u>	<u> </u>	<u> </u>	<u> </u>	2	worker	Fire
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	environment	t
0				2	2	2	2	2	2	3	3	ω	5	4	4	4	5	5	5	8	Facility Hazard Value	

Table 2 - Facility Hazard Value (Table 1 from FR Staffing Template)

Bldg. 11-5	12-104A	12-53/52	Facility or Groups of Facilities	
0	0	0	public	Ra Ex
0	1	0	worker	Radiation Exposure
0	0	0	environment	ion ıre
0	0	0	public	Сп
0	0	0	worker	Criticality
0	0	0	environment	lity
0	0	0	public	Bio
0	0	0	worker	Biological
0	0	0	environment	cal
0	0	0	public	Ha Ch
0	0	0	worker	Hazardous Chemicals
0	0	0	environment	lous cals
0	0		public	I
0	0	0	worker	Lasers
0	0	0	environment	
0	0	0	public	Εl
0	0	0	worker	Electricity
0	0	0	environment	city
0	0	0	public	C
0	0	0	worker	Cryogens
2	0	0	environment	ens
0	0	0	public	P
0	0	0	worker	High Pressure
0	1	0	environment	h ure
0	0	0	public	Ho
1	1	0	worker	Hoistin Riggi
0	0	0	environment	100 gg
0	0	0	public	Construction or D&D
0	0	0	worker	nstri or D
0	0	0	environment	& uctic
0	0	0	public	o Explosives
0	0	0	worker	plos
2	1	0	environment	ives
0	0	0	public	М
1		0	worker	Fire
0	0	0	environment]"
6	5	0	Facility Hazard Value	

Table 3 - Facility Representative Available Time for Coverage, Generic Analysis (Table 5 from FR Staffing Template)

FR Activity that does not provide oversight of his/her assigned facility or increases facility oversight time*	Average Time required to perform identified activity across the FR Program being analyzed	Hours required to perform identified activity annually
Annual Leave	6 hours per pay period	-156
Sick Leave	1 week per year	-40
Administrative Duties	10% of time	-208
Training	3 weeks per year	-120
Collateral Duties	3 hours per week at work	-132
Special Assignments	1 week	-40
Overtime	10%	208
Available Time Adjustment		-488
Percentage of Time Available to Provide FR Coverage (2	080 - Avail Time Adjustment / 2080)	0.77
	and additional activities identified on this table (FTE Required	7.0/0.77-40.4 FTF
from Table 1 / Percentage of time Available)		7.8/0.77=10.1 FTE

This assumes that oversight of maintenance activities in nuclear facilities is rolled into normal FR coverage.

^{*} Activities that reduce FR coverage are negative. Activities that increase FR coverage (overtime, staff detailed to provide backup oversight, etc.) are positive.

Table 1 - SSO Staffing

		De	termination	of Facility Cov	Determination of Facility Coverage Ranking Priority	riority		Dete	ermination	etermination of SSO Coverage	1 1
Facility or Groups of	Facility Hazard	Facility Size	Material	Operations	Programmatic	Operational Biggs	Coverage Ranking Priority	Facility	Facility Activity Level	Base Coverage	Adjusted Coverage Level
22	6	٥,	ď	o ,	, 	0°	h		j	k	-
Bldg. 12-44	19	0.75	1	0.75	0.75	1	8	N2	Н	'n	Ŧ
Bldg. 12-85	19	0.75	0.75	0.75	0.75	1	6	N2	H	Ŧ	Ŧ
Bldg. 12-96	19	0.75	0.75	0.75	0.75	1	6	N2	Н	Ŧ	Ŧ
Bldg. 12-98	19	0.75	0.75	0.75	0.75	_	6	N2	Н	ħ	Ħ
Bldg. 12-84	81	0.75	1	0.75	0.75	1	8	N2	Н	'n	ъ
Bldg. 12-99	18	0.75	0.75	0.75	0.75	1	6	N2	Н	Ŧ	17 1
Bldg.12-104	81	0.75	0.75	0.75	0.75	ī	6	N2	Н	'n	1 71
Z-4 SNM	15	1	1	0.75	0.75	_	8	N2	Н	ъ	H
Bldg. 12-50	14	0.75	1	0.75	0.75	_	6	N2	L	0	0
Bldg. 12-60	14	0.75	_	0.75	0.75	1	6	N2	M	T	17 1
Bldg. 12-64	13	0.75	1	0.75	0.75	_	5	N2	Н	Ŧ	' 71
Bldg. 11-51	10	0.75	1	0.75	0.75	_	4	E2_	X	h-d	_
FS	10	0.75	_	0.75	0.75	_	4	E2_	M	0	0
Bldg. 12-121	4	0.75	0.75	0.75	0.75	-	1	E3	Н	T	'
Bldg. 11-55	8	0.75	_	0.75	0.75	-	3	E2_	X		_
Bldg. 12-19E	8	0.75	-	0.75	0.75	1	3	E2	M	0	0
Bldg. 12-116	8	0.75	0.75	0.75	0.75	1	3	N2	Н	Ŧ	Ŧ
BG	8	0.75	1	0.75	0.75	_	3	E2	M	0	0
Bldg. 12-58	7	0.75	_	0.75	0.75	1	3	N2	X	h(0
Bldg. 12-66	7	0.75	1	0.75	0.75	<u> </u>	3	N2	X	1	-
Bldg. 12-86	5	0.75	0.75	0.75	0.75	1	2	E2	H	ודי	Ŧ
Bldg. 11-38	5	0.75	-	0.75	0.75	1	2	E2_	٢	S	S
Bldg. 12-62	5	0.75	1	0.75	0.75	1	2	E2	L	S	s

Table 1 - SSO Staffing

		De	termination	of Facility Co	verage Ranking P	riority		Det		,		
Facility or Groups of Facilities	Facility Hazard Value	Facility Size	Material Condition	Operations Complexity	Programmatic Importance	Operational Rigor	Coverage Ranking Priority	Facility Categorization		Base Coverage Level	Adjusted Coverage Level	
a	b	С	d	e	f	g	h	i	j	k	1	
Bldg. 12-17	5	0.75	1	0.75	0.75	1	2	E4	M	0	0	
2-104A Paint B	5	0.75	0.75	0.75	0.75	1	2	N2	L	0	О	
Bldg. 11-20	5	0.75	1	0.75	0.75	1	2	E2 .	M	0	0	
Bldg. 12-21	4	0.75	1	0.75	0.75	1	2	E2	L	S	S	
Bldg. 12-63	4	0.75	1	0.75	0.75	1	2	E2	M	0	О	
Bldg. 12-31	4	0.75	1	0.75	0.75	1	2	E2	M	О	О	
Bldg. 11-50	3	0.75	1	0.75	0.75	1	1	E2	L	S	S	
12-65/83	3	0.75	1	0.75	0.75	1	_ 1	E2	L	S	S	
12-104-A	3	0.75	0.75	0.75	0.75	1	1	E2	L	О	0	
Bldg. 12-79	2	0.75	1	0.75	0.75	1	1	E3	L	S	S	
Bldg. 11-15	2	0.75	1	0.75	0.75	1	1	E2	L	S	S	
Bldg. 11-37	2	0.75	1	0.75	0.75	1	1	E2	L	S	S	
Bldg. 12-19W	2	0.75	1	0.75	0.75	1	1	E2	L	О	0	
Bldg. 12-26	2	0.75	1	0.75	0.75	1	1	E2	L	S	S	
12-55/56	2	0.75	1	0.75	0.75	1	1	E2	L	S	S	
Bldg. 12-42	1	0.75	1	0.75	0.75	1	0	N2	L	S	S	
Bldg. 12-82	1	0.75	1	0.75	0.75	1	0	E3	M	S	S	
HPFL	1	0.75	1	0.75	0.75	1	0	Safety Class	N/A	0	0	
12-32/33	1	0.75	1	0.75	0.75	1	0	E4	L	S	S	
Bldg. 12-44 Cell 8	0	0.75	1	0.75	0.75	1	0	N2	L	0	0	
12-21	0	0.75	1	0.75	0.75	1	1	E2	M	0	О	
12-53/52	0	0.75	1	0.75	0.75	1	0	E4	L	S	S	
Total .												

Table 2 - Facility Hazard Value

Bldg. 12-86	FS	Bldg. 12-66	Bldg. 12-58	Bldg, 12-19E	Bldg. 11-55	Bldg. 12-116	Bldg. 11-51	Bidg. 12-121	Z-4 SNM	Bldg. 12-60	Bldg. 12-50	Bldg. 12-64	Bldg. 12-44 Cell 8	Bldg. 12-84	Bldg.12-104	Bldg. 12-99	Bldg. 12-98	Bldg. 12-96	Bldg. 12-85	Bldg. 12-44	Facility or Groups of Facilities	
0	0	0	0	0	0	_	0	0	<u>–</u>	1	_	_	0	1	1	1	1	_	1		public	E R
0	0	<u>-</u>	<u> -</u>	0	0	2	0	0	<u> </u>	2	2	2	0	2	2	2	2	2	2	2	worker	Radiation Exposure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ion l
0	0	0	0	0	0	0	0	0	0	0	0	1	0			_	1	1	1		public	Ç
0	0	0	0	0	0	0	0	0	0	0	0		0	<u> </u>			_	1	1	1	worker	Criticality
0	0	0	0	0	0	0	0	0	0	0	0		0			<u> </u>	_	_		1	environment	lity
0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Bi
0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	0	0	worker	Biological
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	<u>ca</u>
0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	public	Ha: Ch
1	1	0_	0	2	2	0	1	1	0	0	0		0	1		1				<u> </u>	worker	Hazardous Chemicals
0	0	1	<u> </u>	2	2		2	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ous als
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	
0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Lasers
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	si.
0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Ele
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Electricity
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment) i
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	public	<u> </u>
0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Cryogens
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	SE
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	₂ _
0	1	0	0	0	0	0	1	0	0	1	_	<u> </u>	0	1		1	<u> </u>	1	1	0	worker	High Pressure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	
0	0	0	0	0	0	0	0	0	_	0	0	0	0	0	0	0	0	0	0	0	public	Hoi:
	0	1	1	0	0	1	0	0	1	<u> </u>	<u>-</u>	<u> </u>	0	_		1	<u></u>		<u> </u>	_	worker	Hoisting Rigging
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0_	0	0	0	environment	· 80
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	public	Construction or D&D
<u></u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	worker	Construction or D&D
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	environment	는 를.
0	0	0	0	0	0	0	0	0	1	1	<u>-</u>	0_	0	-		<u></u>	2	2	2	12	public	Exp
0	2	0	0	w	ω	0	2	ω	2	w	w	0	0	w	w	ω	ယ	ယ	w	ω _.	worker	Explosives
0	0	0	0	0	0	0	0	<u> </u>		<u> </u>		0	0	_		<u> </u>	_	_	_	_	environment	ves
0	<u>—</u>	<u></u>	_	0	0	<u>-</u>	0	<u> </u>	2	<u></u>	<u> </u>	<u> </u>	0			_	_	<u> </u>	<u> </u>	2	public	<u> </u> _
2	2	2	2	_	-	2	2	2	2	2	2	2	0	2	2	2	2	2	2	2	worker	Fire
0	<u>-</u>	-	<u>-</u>	0	0	<u> -</u> _	0		2	-	<u> -</u>	-	0_	<u> </u>		<u> </u>	ш.			_	environment	
5	10	7	7	&	∞	9	10	9	15	14	14	13	0	18	18	18	19	19	19	19	Facility Hazard Value	

Table 2 - Facility Hazard Value

Bldg.	HPFL	Bldg.	12-	12-	Bid	Bldg.	Bldg.	Bldg.	Bldg.	12-	12-	Bldg.	Bldg.	Bldg.	Bldg.	Bldg.	Bldg.	Bl	BI	ВG	<u> </u>	$\overline{}$
g. 12-42	FL	lg. 12-82	2-32/33	2-55/56	Bldg. 12-26	lg. 12-19W	lg. 11-37	lg. 11-15	lg. 12-79	12-104-A	12-65/83	dg. 11-50	dg. 11-20	dg. 12-21	dg. 12-31	dg. 12-63	dg. 12-62	Bldg. 11-38	Bldg. 12-17	,	Facility or Groups of Facilities	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	E R
0	0	0	0	0	0	0	0	0	0		0	0	0	1	0	0	0	0	0	0	worker	Radiation Exposure
0	0	0	0,	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	tion ure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	C
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Criticality
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	lity
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	B:
0	0	0	0	0	0	0	0	0	0	0	0	0,	0	0	0	0	0	0	0	0	worker	Biological
0	0	0.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ical
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	H ₂
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	0	_	-1	worker	Hazardous Chemicals
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	dous cals
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	_
0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	2	0	0	worker	Lasers
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	rs
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	EI
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Electricity
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	icity
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	
0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	worker	Cryogens
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ens
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	P
0	1	0	0	0	0	0	0	0	0	0	0	-	0	1	0	-	0	1	0	0	worker	High Pressure
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	h
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	H _C
0	0	0	1	0	0	0	0	0	1	1	0	0	0	0		0	1	0	0	0	worker	Hoistin Riggi
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ng &
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Co n
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Constructio n or D&D
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	uctic &D
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	
0	0	0	0	0			1		0	0	2	_	2	_	2	2	2	_	ω	2	worker	Explosives
0	0	0	0	_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ives
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_	public	
0	0		0	_	_		_	_	1	_	_	_	_	_			_	1		2	worker	Fire
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	environment	"
0) 1	1	1	2	2	2	2	2	2	3	3	3	5	4	4	4) 5) 5) 5	~	Facility Hazard Value	

Table 2 - Facility Hazard Value

Bldg. 11-5	12-104A	12-53/52	Facility or Groups of Facilities	
0	0	0	public	Ra Ex
0	1	0	worker	Radiation Exposure
0	0	0	environment	
0	0	0	public	Criticality
0	0	0	worker	ticali
0	0	0	environment	
0	0	0	public	Biological
0	0	0	worker	ogic
0	0	0	environment	
0	0	0	public	Hazardous Chemicals
0	0	0	worker	ardo mica
0	0	0	environment	us ds
0	0	0	public	La
0	0	0	worker	Lasers
0	0	0	environment	
0	0	0	public	Elec
0	0	0	worker	Electricity
0	0	0	environment	
0	0	0	public	Сгу
0	0	0	worker	Cryogens
2	0	0	environment	
0 (0 (0 0	public	High Pressure
))		worker	High ressure
0	1	0	environment	-
0	0	0	public	Hoisting Riggir
1	1	0	worker	E 200 I
0	0	0	environment	
0	0	0	public	onst
0	0	0	worker	Construction or D&D
<u> </u>	9	0	environment	<u>≅</u> 5:
9	9	0 (public worker	Explosives
10	10	0	environment	sive
2 (<u> </u>	0	public	S
0	0		worker	Fire
H	 -	 	environment	
) 6) 5) 0	Facility Hazard Value	

TABLE 3 - Safety System Adjustment Factor

	System	System	Safety	System	SE Program	Safety System
System Type	Size	Complexity	Classification	Condition	Implementation	Adjustment Factor
Electrical Safety Systems						4.05
Blast Door Interlocks	1.25	1	SC	1	1	1.25
Door Interlock System	1	1	SC	1	1	1.00
Lightning Detection & Warning	0.75	1	SC	1	1	0.75
Emergency Lighting	1	0.75		1	1	0.75
RAMS*	1.25	1	VSS	1	1	1.25
UPS*	1	1	VSS	1	1	1.00
Thermal Monitoring*	0.75	1	VSS	1	1	0.75
RADSAFE*	0.75		VSS	1	1	0.94
Electrical Testers (SMP)	0.75	1.25	SMP	1	1	0.94
Mechanical Safety Systems				11.014		
Dynamic Balancer	0.75	1.25	SC	1	1	0.94
CWIV	1	0.75	SC	1	1	0.75
Task Exhaust	1.25	0.75	SC	1	1	0.94
Blast Valves	1	0.75		1	1	0.75
Facility Crane Assembly	1.25	1	SC	1	1	1.25
Paint Booth Ventillation	0.75	0.75	SS	1	1	0.56
Fume Hood Ventillation	0.75	0.75	SS	1	1	0.56
Facility Structure*	1.25	1	vss	1	1	1.25
Special Tooling (SMP)	1.25	1.25	SMP	1	1	1.56
Fire Protection Safety Systems						
Fire Suppression	1.25	1	SC	1	1	1.25
HPFL	1.25	0.75	SC	1.25	1	1.17
FACP*	1	1	VSS	1	1	1.00

^{*} Denotes VSS

nclosure 3

						cant Syster		
	Activity	Hrs/day	Hrs/week	Hrs/month	Hrs/quarter	Hrs/year	Total Hours	FTE
es	Meetings/Inter	face/Coordi	nation					149
Fixed-Time Technical Activities	Attend med	etings with C	ontractor SEs	4			48	0.0230769
cţį	SSO Training/	Requalificat	ion					
Š	SSO Requ	alification			1	20	20	0.0096153
ca	SSO Train	ing	_			20	20	0.0096153
E E	SSO Reporting	g Activities					r.	
ec	Reporting	- Quarterly, V	0.5				26	0.0125
e	Safety/Authori	zation Basis		2				
<u>,</u> <u>E</u>	Review DS	SA Mods/JCC)s			32	32	0.0153846
<u>~</u>	Contractor Pro	ocedure/Pro	cess Change:	S	7.1			1947
×	Review Pro	ocess/Proced	dure Changes				0	0
ii			Fixed	-Time Tech	nical Hour	s Subtotal	146	0.0701923
	Corrective Act	ion Program	ı (CAP)					
<u>ië</u>	Review e	1					260	0.125
₹	Review CA	AP resolution	s	1			12	0.0057692
Ct	Follow-up/	Closure of S	SO Findings, I	1			12	0.0057692
Ħ A	Performance		- Jacoby Village					
Jer			mance/Reliab	4			48	0.0230769
enc			Reports/Perf I		2		8	0.0038461
e b		ontractor SE		1			12	0.0057692
System-Dependent Activities	Inspection/Co			<u>'</u>				0.0007007
E E			nal Assessmei	nt		320	320	0.1538461
yst					ndent Time		672	0.3230769
Ś			_	-) Technical		818	0.39
	Other Technic		A. Valence					
		ai Assionine			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		CT (1111 900 000 000 000 000 000 000 000 000	
						0	0	0.00
	Readiness	Assessmen				0	0	0.00
	Readiness Special As	Assessmen ssginments	ts (IIP)			0 40	40	0.02
	Readiness Special As	Assessmen	ts (IIP)					
	Readiness Special As Collateral	s Assessmen ssginments Assignments	ts (IIP)	and the second s			40	0.02
	Readiness Special As Collateral	s Assessmen ssginments Assignments Support to O	ts (IIP) ther Federal S	and the second s			40	0.02
	Readiness Special As Collateral A Technical Administrative	s Assessmen esginments Assignments Support to O e Duties & A	ts (IIP) ther Federal S	and the second s			40 0 24	0.02
	Readiness Special As Collateral Technical Administrative	s Assessmen esginments Assignments Support to O e Duties & A bing	ts (IIP) ther Federal S	and the second s			40 0 24	0.02 0.00 0.01
v	Readiness Special As Collateral A Technical Administrative Time keep Training R	s Assessmen esginments Assignments Support to O e Duties & A	ts (IIP) ther Federal S	2			40 0 24	0.02 0.00 0.01 0.01 0.01
ïme	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel	s Assessments Assignments Support to O Duties & A Ding Registration	ts (IIP) ther Federal S	2		40	40 0 24 13 12 0	0.02 0.00 0.01 0.01 0.01 0.01
e Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel	s Assessmen seginments Assignments Support to O e Duties & A bing Registration	ts (IIP) ther Federal S ctivities 0.25	2		40	13 12 0 4	0.02 0.00 0.01 0.01 0.01 0.00 0.00
tive Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q	s Assessmen assignments Assignments Support to O as Duties & A bing assignments Activities and Activities	ts (IIP) ther Federal S ctivities 0.25	2		40	13 12 0 4 3	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00
trative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document	s Assessments Assignments Assignments Support to O be Duties & A bing Registration Activities Activities Activities Activities Activities	ts (IIP) ther Federal S ctivities 0.25	2		40	13 12 0 4 3 0	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00
nistrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E	s Assessments Assignments Assignments Support to O be Duties & A bing tegistration Activities tualifications/ t Reviews 0.5	ts (IIP) ther Federal S ctivities 0.25 Exams	1		40	13 12 0 4 3 0 130	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.00
ministrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E	s Assessmen seginments Assignments Support to O p Duties & A oing Registration I Activities Reviews 0.5 tings	ts (IIP) ther Federal S ctivities 0.25 Exams	2		40	13 12 0 4 3 0 130 64	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.06 0.03
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E- Staff Meet	s Assessmen ssginments Assignments Support to O p Duties & A bing Registration Activities Registrations/I t Reviews 0.5 tings Reve	ts (IIP) ther Federal S ctivities 0.25 Exams	1		4 3	13 12 0 4 3 0 130 64 156	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E Staff Meet Annual Le Sick Leave	s Assessments Assignments Assignments Support to O be Duties & A bing Registration Activities tualifications/ t Reviews 0.5 tings eave	ts (IIP) ther Federal S ctivities 0.25 Exams	1		40	13 12 0 4 3 0 130 64 156 40	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E- Staff Meet Annual Le Sick Leave	s Assessmen asginments Assignments Assignments Support to O a Duties & A bing tegistration I Activities tualifications/ t Reviews 0.5 tings eave	ts (IIP) ther Federal S ctivities 0.25 Exams	1		40	13 12 0 4 3 0 130 64 156 40	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.06 0.03 0.08 0.02 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E- Staff Meet Annual Le Sick Leave Military Le Training, (s Assessmen seginments Assignments Support to O e Duties & A oing Registration I Activities Reviews 0.5 tings eave e eave GET	ts (IIP) ther Federal S ctivities 0.25 Exams	1		40 40 3	40 0 24 13 12 0 4 3 0 130 64 156 40 0 3	0.02 0.00 0.01 0.01 0.00 0.00 0.00 0.00 0.06 0.03 0.08 0.02 0.00 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E- Staff Meet Annual Le Sick Leave Military Le Training, C	s Assessmen asginments Assignments Assignments Support to O be Duties & A bing Registration I Activities Reviews 0.5 tings Beave Beave BET Rad Worker I	ther Federal S ctivities 0.25 Exams	1		40 40 3 8	40 0 24 13 12 0 4 3 0 130 64 156 40 0 3 8	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.03 0.08 0.02 0.00 0.00 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E Staff Meet Annual Le Sick Leave Military Le Training, F Training, F	s Assessmen asginments Assignments Assignments Support to O a Duties & A bing Registration I Activities Reviews 0.5 tings Reve Beave GET Rad Worker I Hazwoper Re	ther Federal S ctivities 0.25 Exams 1 3	1		40 40 3 8 8	40 0 24 13 12 0 4 3 0 130 64 156 40 0 3 8	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.00 0.03 0.08 0.02 0.00 0.00 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E Staff Meet Annual Le Sick Leave Military Le Training, f Training, f Training, f	s Assessments assignments Assignments Support to O be Dutles & A bing Registration I Activities Reviews 0.5 tings Reave Beave GET Rad Worker I Hazwoper Ref	ts (IIP) ther Federal S ctivities 0.25 Exams 1 3	1		40 4 3 8 8 4	40 0 24 13 12 0 4 3 0 130 64 156 40 0 3 8 8	0.02 0.00 0.01 0.01 0.01 0.00 0.00 0.00 0.06 0.03 0.08 0.02 0.00 0.00 0.00 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E Staff Meet Annual Le Sick Leave Military Le Training, O Training, F Training, F Training, F	s Assessmen seginments Assignments Assignments Support to O a Dutles & A bing Registration I Activities Reviews 0.5 tings Reave Beave GET Rad Worker I Hazwoper Re Facility Acces Admin (EEO,	ts (IIP) ther Federal S ctivities 0.25 Exams 1 3	1		40 40 3 8 8	40 0 24 13 12 0 4 3 0 130 64 156 40 0 3 8 8 8	0.02 0.00 0.01 0.01 0.00 0.00 0.00 0.00 0.06 0.03 0.08 0.02 0.00 0.00 0.00 0.00
Administrative Time	Readiness Special As Collateral A Technical Administrative Time keep Training R Travel Personnel Medical Q Document Mail & E Staff Meet Annual Le Sick Leave Military Le Training, f Training, f Training, f	s Assessmen seginments Assignments Assignments Support to O be Duties & A bing Registration I Activities tualifications/I t Reviews 0.5 tings eave Beave GET Rad Worker I Hazwoper Re Facility Acces Admin (EEO, ecify	ts (IIP) ther Federal S ctivities 0.25 Exams 1 3	1		40 4 3 8 8 4	40 0 24 13 12 0 4 3 0 130 64 156 40 0 3 8 8	0.02 0.00 0.01 0.01 0.00 0.00 0.00 0.06 0.03 0.08 0.02 0.00 0.00 0.00 0.00

TABLE 5 - System Specific Adjusted Base SSO Hours

		SSO System	Adjusted System
	Safety System	Dependent	Dependent SSO
System Type	Adjustment Factor	Base Hours	Hours/Year
Electrical Safety Systems			
Blast Door Interlocks	1.25	672	840
Door Interlock System	1.00	672	672
Lightning Detection & Warning	0.75	672	504
Emergency Lighting	0.75	672	504
RAMS*	1.25	672	840
UPS*	1.00	672	672
Thermal Monitoring*	0.75	672	504
RADSAFE*	0.94	672	630
Electrical Testers (SMP)	0.94	672	630
Mechanical Safety Systems			
Dynamic Balancer	0.94	672	630
CWIV	0.75	672	504
Task Exhaust	0.94	672	630
Blast Valves	0.75	672	504
Facility Crane Assembly	1.25	672	840
Paint Booth Ventillation	0.56	672	378
Fume Hood Ventillation	0.56	672	378
Facility Structure*	1.25	672	840
Special Tooling (SMP)	1.56	672	1050
Fire Protection Safety Systems			
Fire Suppression	1.25	672	840
HPFL	1.17	672	787.5
FACP*	1.00	672	672

TABLE 6 - Multiple System Assignment Factors

System Type	Adjusted System Dependent SSO Hours/Year	Fixed-Time Technical Hours/Year	Total SSO Technical Hours/Year (Note 1)	Total SSO Technical FTE
Electrical Safety Systems				
Blast Door Interlocks	840	146	3401	1.6
Door Interlock System	672	146	0.0.	1.0
Lightning Detection & Warning	504	146		
Emergency Lighting	504	146		
RAMS*	504	146		
UPS*	840	146		
Thermal Monitoring*	672	146		
RADSAFE*	504	146		
Electrical Testers (SMP)	630	146	e me en	
			and the second	
Mechanical Safety Systems			a di mananananananananananananananananananan	
Facility Crane Assembly	840	146	3443	1.7
Dynamic Balancer	630	146		'
Task Exhaust CWIV	630 504	146 146		
Blast Valves	504 504	146		
Paint Booth Ventillation	378	146		
Fume Hood Ventillation	378 378	146		
Facility Structure*	840	146		
Special Tooling (SMP)	1050	146		
Fire Protection Safety Systems				
HPFL	787.5	146	1747.25	0.8
Fire Suppression	840	146		
FACP*	787.5	146		

Note 1: Total SSO hours/year = Fixed Time Technical hours

- + largest adjusted system dependent hours
- + 0.5*(System{2} dependent hours)
- + 0.5*(System{3} dependent hours)
- + . . . + 0.5*(System{N} dependent hours)

Table 7 - S	SSO A	vailable	Time for Coverage, Assignme	nt-Spec	ific Metho	od			Enclosure 3
SSO	Staff	Total Available Hours	Collateral Duty Assignments	Hours	Admin. Time		Staff Time for SSO Coverage g=c-d-e	Needed SSO Coverage (from Table 6)	Needed SSO Personnel
а	b	С	d	е	f	g	h	İ	i
Electrical Systems	SD	2080	Collateral Duty 1: LP Project; Indirect Effects Plan; ESD Plan; Facility Modifications /Projects	120	677				
			Collateral Duty 2: SE Program Assessment; RA Participation	360					
			Collateral Duty 3: Support for BOP Electrical Systems	120					
	JT*	520			173	4450	0.55	4.6	
		2600		600	850	1150	0.55	1.6	2.0
Mechanical Systems	TZ	2080	Collateral Duty 1: Seismic Project; Configuration Management Project; Facility Modifications /Projects	120	677				
			Collateral Duty 2: SE Program Assessment; RA Participation Collateral Duty 3: Support for BOP	360					
,			Mechanical Systems	180					
	JT*	520			173				
		2600		660	850	1090	0.52	1.7	2.1
Fire Protection Systems	JL	2080	Collateral Duty 1 - Non-safety FP Systems; Facility Modifications /Projects	420	677				
	JT*	F20	Collateral Duty 2: FP Program Assessment; RA Participation	360	172				
	JI	520 2600		780	173 850	970	0.47	0.8	1.2
		2000		100	000			• • • • • • • • • • • • • • • • • • • •	

^{*} Denotes allocated time for SSO Lead. Approximately1/3 for each type of system after administrative hours subtracted.

The undersigned have reviewed and approved this PXSO SSO staffing analysis.

Table 1 - Facility Hazard Value for "Other TQP" Functions

Bldg. 12-86	FS	Bldg. 12-66	Bldg. 12-58	Bldg. 12-19E	Bldg. 11-55	Bldg. 12-116	Bldg. 11-51	Bldg. 12-121	Z-4 SNM	Bldg. 12-60	Bldg. 12-50	Bldg. 12-64	Bidg. 12-44 Cell 8	Bldg. 12-84	Bldg.12-104	Bldg. 12-99	Bldg. 12-98	Bldg. 12-96	Bldg. 12-85	Bldg. 12-44	Facility or Groups of Facilities	
0	0	0	0	0	0	<u></u>	0	0			_	1	1	1	_	1	1	1	1	_	public	E R
0	0	<u> </u>	1	0	0	12	0	0	-	2	2	2	2	2	2	2	2	2	2	2	worker	Radiation Exposure
0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	environment	ion ure
0	0	0	0	0	0	0	0	0	0	0	0							1	1	1	public	Cr
0	0	0	0	0_	0	0	0	0	0	0	0	<u></u>	<u> -</u> _	1	_		_	<u> </u>	_		worker	Criticality
0	0	0	0	0	0	0	0	0	0	0	0		_	1	1	_				_	environment	lity
0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Bi
0	0	0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	0	0	worker	Biological
0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	cal
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Ha:
<u>-</u>	<u>-</u>	0	0	2	2	0	<u> </u>	_	0	0	0		<u> </u>	1		1			1	_	worker	Hazardous Chemicals
0	0	1	1	2	2	<u>-</u>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ous :als
0	0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	
0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	worker	Lasers
0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	Ġ
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Ele
0	0	0	0_	0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	worker	Electricity
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	city
0	<u>–</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Cr
0	0	0_	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Cryogens
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	ens
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0_	0	0	0	public] Pr
0	1	0	0	0	0	0	-	0	0	-	_	_	1	1	-	1	1	<u> </u>	<u>-</u>	0	worker	High Pressure
0	0	0_	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	environment	re
0	0	0	0	0	0	0	0	0	<u> </u>	0	0	0	0	0	0	0	0_	0	0	0	public	Hoi R
<u>–</u>	0	_	_	0_	0	<u> </u>	0	0	_	1	_	<u></u> _			_	_			<u> </u>		worker	Hoisting Rigging
0	0	0	0	0	0	0	0	0	<u></u>	0	0	0	0	0	0	0	0	0	0	0	environment	ng &
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	public	Cor n o
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	worker	Construction or D&D
0	0	0	0	0	0	0	0	0	0_	0	0	0	0	0	0	0	0	0	0	0	environment	ctio &D
0	0	0	0	0	0	0	0	0	1	_	1	0	1	1	1	1	2	2	2	2	public	Ex
0	2	0	0	သ	သ	0	2	ယ	2	ယ	ယ	0	0	သ	ယ	သ	ယ	3	3	သ	worker	Explosives
0	0	0	0	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	environment	ives
0	0	1	_	0	0	1	0	1	2		1	_		1		1	1	1	_	2	public	
2	2	2	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	worker	Fire
0	0	1	_	0	0	1	0	1	2	_	1	1	_	1	_	_	1		1	_	environment	
5	7	7	7	8	8	9	9	9	15	14	14	13	15	18	18	18	19	19	19	19	Facility Hazard Value	

Table 1 - Facility Hazard Value for "Other TQP" Functions

Table 1 - Facility Hazard Value for "Other TQP" Functions

	_	dia:	ion ure	Cr	itica	lity	Bio	ologi		Haz Ch			L	aser	rs	Ele	ctric	eity	Cr	yoge	ns	ŀ	High essu			sting iggir			stru or De	ıctio &D		plosi	ives		Fire		
Facility or Groups of Facilities	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	public	worker	environment	Facility Hazard Value
Bal. of Plant	0	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7

Table 2 - Determination of Facility SME Coverage Priority for "Other TQP" Functions

			Table 2: De	termination of	Facility Coverage	Ranking Prior		
Facility or Groups of Facilities	Facility Hazard Value	Facility Size	Material Condition	Operations Complexity	Programmatic Importance	Operational Rigor	Coverage Ranking Priority	Facility Type
a	b	С	d	e	f	gg	h	
Bldg. 12-44	19	0.75	1	0.75	0.75	1	8	Cell
Bldg. 12-84 Bldg. 12-44	18	0.75	1	0.75	0.75	1	8	Bay
Cell 8	15	0.75	1	0.75	0.75	1	6	NM
Z-4 SNM	15	1	1	0.75	0.75	l	8	NM
Bldg. 12-64	14	0.75	1	0.75	0.75	1	6	NM
Bldg. 12-50	14	0.75	1	0.75	0.75	1	6	Bay
Bldg. 12-60	14	0.75	1	0.75	0.75	1	6	Bay
Bldg. 12-85	19	0.75	0.75	0.75	0.75	1	6	Cell
Bldg. 12-96	19	0.75	0.75	0.75	0.75	1	6	Cell
Bldg. 12-98	19	0.75	0.75	0.75	0.75	1	6	Cell
Bldg. 12-99	18	0.75	0.75	0.75	0.75	1	6	Bay
Bldg.12-104	18	0.75	0.75	0.75	0.75	1	6	Bay
Bldg. 11-51	9	0.75	1	0.75	0.75	1	4	HE
Bal of Plant	7	1	1	0.75	0.75	1	4	
Bldg. 11-55	8	0.75	1	0.75	0.75	1	3	HE
Bldg. 12-19E	8	0.75	1	0.75	0.75	1	3	HE
Bldg. 12-58	7	0.75	1	0.75	0.75	1	3	NM
Bldg. 12-66	. 7	0.75	1	0.75	0.75	1	3	HE
FS	7	0.75	1	0.75	0.75	1	3	HE
Bldg. 12-121	9	0.75	0.75	0.75	0.75	1	3	HE
Bldg. 12-116	8	0.75	0.75	0.75	0.75	1	3	NM
Bldg. 11-38	5	0.75	1	0.75	0.75	1	2	HE
Bldg. 12-62	5	0.75	1	0.75	0.75	1	2	HE

Table 2 - Determination of Facility SME Coverage Priority for "Other TQP" Functions

			Table 2: De	termination of	Facility Coverage	Ranking Prio	rity	
Facility or Groups of Facilities	Facility Hazard Value	Facility Size	Material Condition	Operations Complexity	Programmatic Importance	Operational Rigor	Coverage Ranking Priority	Facility Type
a	b	С	d	е	f	g	h	
BG	5	0.75	1	0.75	0.75	1	2	HE
Bldg. 12-17	5	0.75	1	0.75	0.75	1	2	HE
Bldg. 12-86	5	0.75	0.75	0.75	0.75	1	2	NM
Bldg. 12-21	4	0.75	1	0.75	0.75	1	2	HE
Bldg. 12-63	4	0.75	1	0.75	0.75	1	2	HE
Bldg. 12-31	4	0.75	1	0.75	0.75	1	2	HE
Bldg 11-15	2	0.75	1	0.75	0.75	1	1	HE
Bldg 11-37	2	0.75	1	0.75	0.75	1	1	HE
Bldg 12-26	2	0.75	1	0.75	0.75	1	1	HE
12-55/56	2	0.75	1	0.75	0.75	1	1	HE
Bldg 12-82	1	0.75	1	0.75	0.75	1	1	HE
Bldg. 11-20	3 .	0.75	1	0.75	0.75	1	1	HE
Bldg. 11-50	3	0.75	1	0.75	0.75	1	1	HE
12-65/83	3	0.75	1	0.75	0.75	1	1	HE
12-104-A	3	0.75	0.75	0.75	0.75	1	1	Bay
Bldg. 12-79	2	0.75	1	0.75	0.75	1	1	HE
Bldg. 12-19W	2	0.75	1	0.75	0.75	1	1	HE
Bldg. 12-42	1	0.75	1	0.75	0.75	1	0	NM
HPFL	1	0.75	1	0.75	0.75	1	0	
Bldg 12-33	1	0.75	1	0.75	0.75	1	0	HE

Table 3 - FTE's for Technical Capabilites							
	Hazard Rank (highest left, lowest right)						-
Technical Capability	NE Operations in Cells	NE	NM Operations	HE Operations	Balance of Plant	Total TQP FTE's Needed	Total TQP FTE's On- board
Senior Technical Safety Manager	Note 1	Note 1	Note 1	Note 1	Note 1	6	6
Facility Representative	Note 2	Note 2	Note 2	Note 2	Note 2	10	7
Safety System Oversight	Note 3	Note 3	Note 3	Note 3	Note 3	5	4
Civil/structural Engineering	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4
Criticality Safety	0.03	0.03	0.03	N/A	N/A	0.1	Note 5
Electrical Systems	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4
Environmental Compliance	Note 6	Note 6	Note 6	Note 6	Note 6	N/A	Note 6
Environmental Restoration	Note 6	Note 6	Note 6	Note 6	Note 6	N/A	Note 6
Facility Maintenance Management	Note 4	Note 4	Note 4	Note 6	Note 6	N/A	Notes 4&6
Fire Protection Engineering	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4
Industrial Hygiene	0.2	0.2	0.2	0.2	0,2	1	11
Instrumentation and Control	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4
Mechanical Systems	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4	Note 4
Nuclear Explosives Safety	1	1	N/A	N/A	N/A	2	2
Nuclear Safety Specialist	3	3	2	N/A	N/A	8	5
Occupational Safety	0.3	0.3	0.3	0.3	0.85	2	1
Quality Assurance	2.5	2.5	0.25	0.25	0.5	6	6
Radiation Protection	0.3	0.3	0.3	N/A	N/A	1	1
Safeguards and Security	Note 6	Note 6	Note 6	Note 6	Note 6	Note 6	Note 6
Safety Software Quality Assurance	0.05	0.05	0.05	0.05	N/A	0.2	Note 5
Technical Program Manager	5	5	1	1	0	12	11
Technical Training	0.3	0.3	0.3	0.1	N/A	1	0
Transportation and Traffic Management	0.25	0.25	0.25	0.25	N/A	1	1
Waste Management	Note 6	Note 6	Note 6	Note 6	Note 6	Note 6	Note 6

Note 1: FTE requirements are estimated by the process to determine STSM staffing which is provided separately.

Note 2: FTE requirements are estimated by the process to determine FR staffing which is provided separately

Note 3: FTE requirements are estimated by the process to determine SSO personnel which is provided separately.

Note 4: This function is provided by through the SSO program and estimated by that process which is provided separately.

Note 5: This function is provided through the nuclear safety specialist staff, one each FTE is also qualified to the the crit. safety & SQA TQP standard.

Note 6: These personnel are qualified separately and are not part of the TQP.